

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	01 November 2022
Team ID	PNT2022TMID25362
Project Name	VirtualEye- Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	Installation	Needed to be fixed under the water Without creating any disturbance to the People in the swimming pool.
FR-2	Deduction	Either horrified or in unconscious.
FR-3	Audio	Ask for help or stay quiet if the person is unconscious.
FR-4	Support	Take swim tubes or take the help of rescuer.
FR-5	Prior Alert	Send alert message to the lifeguard

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	To ensure the safety of each and every person Present in the pool. A Lifeguard should be Present all the time in the pool.
NFR-2	Security	Lifeguard should be aware of the alert Message to save the life of the swimmer.

NFR-3	Reliability	Virtual eye lifeguard triggers an immediate Prior alarm if the swimmer is in peril, helping To avoid panic even in critical situations.
NFR-4	Performance	The alarm is triggered when the swimmer is drowning
NFR-5	Availability	Equipment and accessories include lifesaver Rings, inflatable vests, aShapherd's Crook, Life Hooks, spine boards, rescue tubes , and a first Aid kit. Remember to keep the maccessible to Quickly pull someone from the water safely.
NFR-6	Scalability	Virtual eye lifeguard detects potential Drowning and promptly notifies you. It Features the latest artificial intelligence Technology and adapts to the needs of the user.